TR-WM-138 (12/15) Formerly ERS-6294 UST (R. 02/12)

Wisconsin Department of Agriculture, Trade and Consumer Protection
Bureau of Weights and Measures, Storage Tank Regulation
P.O. Box 7837 Madison, WI 53707-7837
(608) 224-4942

FOR OFFICE USE ONLY
Reg Obj #:

CHECKLIST FOR UNDERGROUND TANK INSTALLATION

Wis. Admin. Code §ATCP 93.115

The information you provide may be used for purposes other than that for which it was originally collected (s.15.04(1)(m) Wis. Stats.)

Complete one form for each tank and related piping.

This checklist covers the installation of: ☐ Tank ☐ Piping

IDENTIFICATION: (Please Print)

INSTALLATION NAME		COUNTY		
INSTALLATION STREET ADDRESS *(Not PO Box)*		☐ CITY ☐ TOWN ☐ VILLAGE:	STATE	ZIP
OWNER LEGAL NAME	COUNTY	TELEPHONE: ( ) -	E-MAIL ADDRESS	
OWNER STREET ADDRESS		☐ CITY ☐ TOWN ☐ VILLAGE:	STATE	ZIP

PLAN APPROVAL	Installer Verified	Inspector Verified	NA
1. Plans have been submitted and approved.	☐	☐	☐
2. State plan number/LPO plan number is:			
3. Tank Capacity: gallons. Tank contents, if known:			
TANK CONSTRUCTION			
1. Tank is new and carries UL or other national testing label.	☐	☐	☐
2. Tank is used, but has been recertified to meet current codes and standards.	☐	☐	☐
3. Tank is corrosion protected (☐ fiberglass or ☐ composite tank) and matches the equipment listed in the plan review.	☐	☐	☐
4. Tank vents do not terminate under eaves, are at least 5 feet from a building opening, and 15 feet from Power Vent air intake devices.	☐	☐	☐
5. Class I flammable tank vents discharge at least 12 feet above ground level, or if installed within or attached to a canopy discharge is at least 5 feet above the highest part of the canopy.	☐	☐	☐
6. Class II or III A liquid storage tank vents discharge higher than the fill pipe opening, and a minimum of 4 feet above ground level.	☐	☐	☐
7. Overfill protection device is installed and matches plan submittal.	☐	☐	☐
8. Spill containment device is installed.	☐	☐	☐
TANK HANDLING AND TESTING			
1. Pre-installation test of double-walled tank: ☐ 1) pressurize inner tank to a maximum of 5 psi, seal inner tank and disconnect external air supply, monitor for one hour. After one hour, pressurize the interstitial space with a maximum 5 psi air from the inner tank and use a second gauge for monitoring the pressure. Soap all surfaces, seams and fittings and inspect for bubbles. OR ☐ 2) Tank interstitial maintaining original factory vacuum/liquid fill level requirements	☐	☐	☐
2. Tank tested after backfilling through precision test, approved tank gauge or interstitial monitor.	☐	☐	☐
3. Tank gauge or interstitial monitor verified as operative.	☐	☐	☐
4. Tank coating was inspected and any damage to the coating repaired.	☐	☐	☐
TANK SITE AND BACKFILL	☐	☐	☐
1. Tank is located a minimum of 3 feet from property lines and 1 foot from buildings.	☐	☐	☐
2. Tank is spaced a minimum of 2 feet from any other tank, and from excavation walls.	☐	☐	☐
3. Backfill for composite, fiberglass clad steel, or fiberglass- tank is clean, washed, well granulated sand, crushed rock, or is pea gravel naturally round with minimum diameter of 1/8 inch and maximum size of 3/4 inch, or crushed rock or gravel between 1/8 and 1/2 inch in size.	☐	☐	☐
4. Minimum of 1 foot of compacted backfill in bottom of excavation or over top of hold down pad.	☐	☐	☐
5. Backfill compaction is adequate to securely and evenly support the tank and prevent movement/settlement.	☐		☐
6. Excavation is in a bog, swampy area or landfill and a filter fabric was used to prevent the migration of the backfill material.	☐	☐	☐
7. Backfill materials over the top of a tank in an area subject to traffic should be compacted to a minimum depth of: ☐ 36 inches if unpaved; ☐ 30 inches if paved with 6 inches of asphalt; ☐ 18 inches if paved with 8 inches of reinforced concrete.	☐	☐	☐
8. Backfill materials over the top of a tank in an area not subject to traffic should be compacted to a minimum depth of: ☐ 2 feet if unpaved; ☐ 1 foot if paved with 6 inches of asphalt or 4 inches of reinforced concrete.	☐	☐	☐
TANK ANCHORAGE			
1. Installation is in an area of high water table or subject to flooding and tank is anchored.	☐	☐	☐
a. Anchor straps for tank were non-conductive and placed according to manufacturer's specifications	☐	☐	☐
PIPING (Indicate whether piping is ☐Fiberglass or ☐Flexible)			
1. Piping maintains a 1/8 inch per foot slope toward a sump or a tank.	☐		☐
2. Piping trench provides a total of at least 18 inches of compacted backfill and paving on top of piping.	☐		☐
3. Pipes are separated by at least twice the pipe diameter.	☐		☐
4. Pipes are separated from the trench excavation sidewalls, electrical conduit, utilities, and other structures, by at least 6 inches.	☐		☐

Continued on next page

	Installer Verified	Inspector Verified	NA
5. Piping was isolated from the tank and dispenser and tested at 150% of operating pressure of the system (but not less than 50 psi) for 1 hour prior to and after backfilling.	☐	☐	☐
6. Secondary containment piping was tested for tightness before it was covered, enclosed or placed in use. For fiberglass piping test at 10 psi For flexible secondary piping, test at manufacturers' recommendation: psi.	☐	☐	☐
7. After backfilling, piping was isolated from the tank and dispenser and precision tested at 110% of operating pressure but not less than 50 psi for 1 hour.	☐	☐	☐
8. Piping was isolated from the tank and dispenser and tested through another approved means prior to and after backfilling. Indicate method(s):			
Prior	☐	☐	☐
After	☐	☐	☐

PRE-OPERATIONAL FUNCTIONALITY VERIFICATION (Both TANK and PIPING)

1. Tank precision tightness test, including the ullage, verified the tank is tight	☐	☐	☐
2. Sumps and spill buckets have been verified as liquid tight	☐	☐	☐
3. All sensors have been verified as functional	☐	☐	☐
4. ATG setup has been verified as accurate and functional	☐	☐	☐
5. Leak detection method has been verified functional within the respective methodology parameters	☐	☐	☐

PRIMARY LEAK DETECTION (Check which applies under both TANK and PIPING) ☐ Inspector Verified

Tank ☐ n/a ☐ Electronic interstitial monitoring Manufacturer: Sensor/Probe #:

Model Name/#: Material Approval #:

Piping **Pipe construction material:** ☐ Fiberglass ☐ Flexible ☐ Other (type):

Primary Piping System Type: ☐ Pressurized piping ☐ Suction piping with check valve at tank ☐ Suction piping with check valve at pump and inspectable

Piping Catastrophic leak detection method: ☐ Pressurized piping with ⟶ A) ☐ Pump auto shutoff - ELLD B) ☐ Flow restrictor – MLLD;

Manufacturer/Model:

Piping leak detection method: ☐ Electronic interstitial monitoring – sump sensor or leak sensing cable

Manufacturer/Sensor Model:

INSTALLER CERTIFICATION

INSTALLATION COMPANY NAME (Please print)	INSTALLER CERTIFICATION NUMBER	TELEPHONE: ( ) -	E-MAIL ADDRESS
INSTALLATION COMPANY MAILING ADDRESS *STREET*	CITY	STATE	ZIP

I certify that the tank system and related components have been installed according to the manufacturer's instructions, conditionally approved plans, and complies with ATCP 93.

INSTALLER SIGNATURE: DATE SIGNED:

INSPECTOR INFORMATION

Inspection Dates:	1.	2.	3.	4.	5.	6.

INSPECTION COMPANY NAME)

INSPECTOR SIGNATURE: INSPECTOR # LOCAL OPERATOR #:

DATE SIGNED:: FIRE DEPARTMENT PROVIDING COVERAGE FDID #:

COMMENTS

TANK REGISTRATION FORM TR-WM-137 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH INSTALLATION CHECKLIST

Copy Distribution: DATCP Inspector Contractor Owner